

DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES Minerals & Mining Program - Oil & Gas Section 2050 West Main, Suite #1, Rapid City, SD 57702-2493 Telephone: 605-394-2229, FAX: 605-394-5317

RECEIVED MAY 05 2004

DEPT OF ENVIRONMENT & NATURAL

APPLICATION FOR PERMIT TO DRILL RESOURCES - RORD

Type of work: XDrill New W Other		I XDrill Direction	onal Well	X Oil Well X Other Ho	Gas Well	Injection	
Name and Address of Operator: LUFF EXPLORATION COMPANY 1580 LINCOLN ST. SUITE 850				E 850 DENVER, CO		Telephone 303-861-2468	
	dress of Surface Own ROTHERS, LLC 20	er: 03 3 RD AVE. SW, BO	WMAN, N	D 58623	B FF	-11 E	
Name and Add	dress of Drilling Cont	ractor and Rig Numb	er:				
NABORS DR	ILLING USA, WILL	ISTON, ND AND C	&H WELL	SERVICE, GILLETTE,	WY.		
Surface Locati	on of well: Qtr-Qtr, S		ty, feet from	nearest lines of section		ngitude (if available):	
			3 1500' FN	s of section: L & 3000' FWL SEC. 1' L & 3400' FEL SEC. 18			
Acres in Spaci 637.15	ng (Drilling) Unit				ption of Spacing Uni ec. 17 & N/2 Sec. 18		
Well Name and Number Elevation			Field and Pool, or Wildcat Proposed Depth and For		and Formation		
STEARNS H-18H		3216.6 GRD Un-graded	N. BUFF FM	LO - RED RIVER 9000'MD=9000'TVD - RE		IVD – RED RIVER B	
Size of Hole	Size of Casing	Weight per Foot	Depth		Cementing Program (amount, type, additives) Depth		
1) 7 7/8 2) 7 7/8	8 3/4 5 1/2	24 15.5, 17, 23	2000 9000		00 Lite and 200 Class G Surfac 40 sx Lite and 400 sx Premium 4300		
Proposed Wor Drill a vertical csg. window fr Drill 4 ½" hor 8783'-8790' w to TD of 12,05 used to drill th lined pit. Cutti	k). Use additional pa well to approx. 9000 from 8800'-8807' w/a rizontal lateral to TD r/ azimuth of 90 deg. 57'MD=8904'TVD a e vertical hole and frongs and liner will be y that the foregoing a	ige(s) if appropriate. One of the Red Rive imuth of 270 deg. D of 12065'MD=8904' Drill short radius cut BHL 1500' FNL & esh water/polymer flu buried in place. Com	er B zone ar rill short rac TVD and E rve and land 3000' FWL tid to drill the pletion will ation performance	dius curve and land in 11 HL 1500' FNL & 3400 I in Red River B at 8966 Sec. 18. See attached d he horizontal laterals. Al be through open hole. A med is a true and correct Operate	and cement 5 1/2" cs be Red River B zone FEL of Sec.18. Mi 'MD=8904'TVD. D irectional drilling pl I drilling fluids will inticipate starting op t report of such work	sg. Move in smaller rig. Mile at 8955'MD 8964' TVD. ill second window from prill 4 ½" horizontal lateral lan. Oil base mud will be be contained in a 12 mile retations in late May, 2004 k or operation.	
					WESTERN FIELD)	
Approved By:		API No. 40	063 205	Title:	Oil & Gas S		
Conditions, if	any, on attached page						